## ON THE ANATOMY OF TWO NEW TREMATODES OF THE GENUS

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(With a plate)

## Introduction

The commonly available lizards in the United Provinces, India, are Calotes versicolor Daud., Hemidactylus flaviviridis Ruppel and Uromastix hardiwickii Gray. All these are found to harbour in their gall-bladder trematodes of the genus Dicrocwlium. It is strange that the existence of these parasites has hitherto remained unnoticed though these lizards are generally used for dissection in all laboratories in Northern India. The specimens obtained from Hemidactylus and Calotes apparently belong to the same species showing only minor differences of size, form, etc.,; but those from Uromastix are quite different and have therefore been assigned to a separate species.

The percentage of infection may be gathered from the following table:

Host	No. of lizards examined	No. of Lizards infected	Percentage of infection
Hemidactylus flaviviridis.	32	1	3.1%
Uromastix hardwickii	40	1	2.5%
Calotes versicolor	64	10	15%

It has not been possible to examine *Uromastix* from time to time throughout the year, as has been done in the case of the other two lizards, because the former is not easily available. The infection in *Calotes* seems to be the heaviest in the rainy season—one lizard yielding as many as 18 parasites, which is the largest number recorded, and several giving as many as 8 to 10. They were small in size and more or less immature. The number obtained in other seasons is only 2-3 from a single host; but these specimens are larger and fully mature. This lizard is very vigorous and feeds actively in the rainy season; it is therefore probable that the infection takes place about this time of the year.

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We wish to offer our thanks to Dr. H.R. Mehra and Mr. S.C. Verma of the University Department of Zoology, for their valuable help in connection with this work. We are also very thankful to Mr. S.N. Deb of the Kayasth Pathshala who very kindly translated a few German and French papers for us.

The prepared slides have been deposited in the reserve collection of the Department of Zoology, University of Allahabad.

## Dicrocælium orientalis n. sp.\*

External Characters. The body is flattened more or less leaf shaped. It measures 5-5.5 † in length and 2.5-3 in maximum breadth in the region of the ventral sucker. It is greyish with two longitudinal greenish-yellow streaks, one on each side, the colour of the streaks being due to the intestinal cæca

<sup>\*</sup> This account is based mainly on the specimens obtained from Calotes.
† All measurements are in mms.